

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/050041 A2

(51) International Patent Classification⁷: **F16D**

(21) International Application Number:
PCT/IL2004/000964

(22) International Filing Date: 24 October 2004 (24.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
158936 18 November 2003 (18.11.2003) IL

(71) Applicant and

(72) Inventor: LEDEREICH, Giora [IL/IL]; 22 Savion St.,
36531 Kiriath Tivon (IL).

(74) Agent: TSIVION, Yoram; P.O.Box 1307, 37111 Pardes
Hanna (IL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

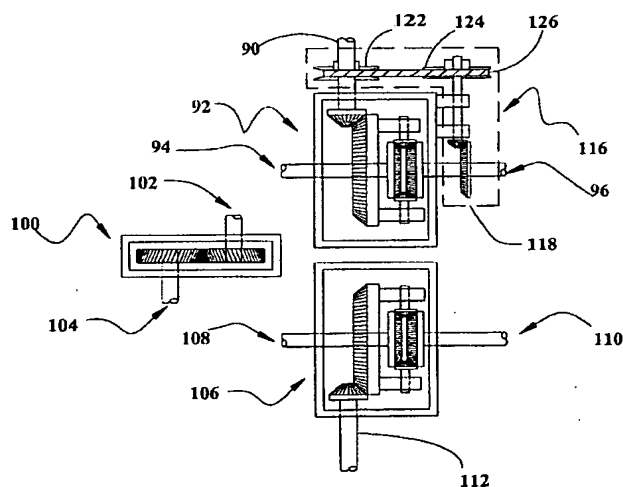
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: CONTINUOUSLY VARIABLE TRANSMISSION



(57) Abstract: A power transmission implementing continuously variable transmission using a succession of gear sets. A first constant ratio gear - set receives torque and rotation from a motor and a second constant ratio gear set provides torque and rotation to a driven device. These two gear - sets each employ three gear elements such that the first gear - set receives power in one shaft and provides power in two shafts. The second gear set receives power in two different shafts and provides power in one shaft. Two drive chains transmit rotation and torque from the first gear - set to the second gear - set, in between the two gear sets the rotation is reversed in one drive chain. A control over the total gearing ratio of the transmission is provided by transient application of power to modify the rotation rate of one branch. In one embodiment fluid couplings are employed for transmission of power in each drive chain.

WO 2005/050041 A2